



# Technical Data

four axle tank wagon

**Zacens 78 m<sup>3</sup>**

Order Nr. **ATIR**

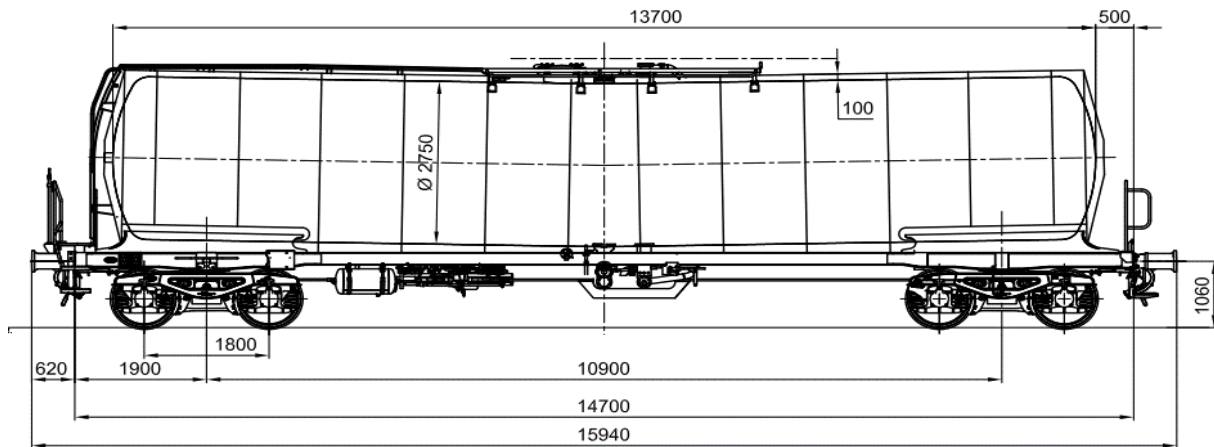
Edited by: **Beneš**

Date: **21.1.2019**

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## 1. Basic parameters

Dimensions	Track gauge	1 435 mm
	Length over buffers	15 940 mm
	Distance between bogie pivots	10 900 mm
Running gear	Bogie type	Y25 Lsd-K
	Wheelbase	1 800 mm
	Wheelset type	BA 004
Brake	Brake type	KE-GP (K) alt. MH-GP (K)
	Brake shoe	1xBgu (2x 250)
Draw and buffer gear	Draw gear	EN 15566; 1,0 MN
	Buffers	EN 15551; Cat.A
	Stroke	105 mm

Weight	Tare weight of wagon (average)	24,0 t
	Loading weight	66,0 t
	Maximum axle load	22,5 t
	Total weight of wagon	90,0 t
	<i>Load limit table (for average weight) [t]:</i>	

	A	B	C	D
S	40,0	48,0	58,0	66,0
120	00,0			

Speed	<i>Maximum speed:</i>	
	120 km/h (empty wagon)	100 km/h (loaded wagon up to 22,5 t)
	Vehicle gauge	G1 - EN15273-2
	Wagon meets the conditions	TSI, GCU

## 2. Tank parameters

Dimensions	Loading volume	78 m <sup>3</sup>
	Tank diameter	2 750 mm
	Length of the tank	13 700 mm
	Tank slope	1,0 °
	Tank bottom type	DIN 28011
	Tank bottom thickness (min.)	7,5 mm
	Tank plate thickness	min. 7 mm
Rings	Number of rings	6
	Rings material	S355J2+N

Tank calculation parameters	Tank code	L4BH
	Tank material	P355GH
	Calculation pressure	1,0 MPa
	Test pressure	0,4 MPa
	Operating pressure	0,3 MPa
	External overpressure	0,04 MPa
	Tank calculation temperature	-20 / +190 °C
	Explosion resistance	yes (TRT 006)
	Corrosion allowance	1,0 mm

Heating	Heating type	Exterior
	Heating surface	8,5 m <sup>2</sup>
	Operating pressure	1,2 MPa
	Operating temperature	190 °C
	Test pressure	1,8 MPa

Insulation	Insulation thickness	100 mm
	Insulation material	Mineral wool
	Insulation shell thickness	0,8 mm
	Insulation shell material	Sheets(zinc)

CHANGE OF TECHNICAL DATA RESERVED. All technical data are for informational purposes only and may change based on other inputs and customer requirements.



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## 3. Charging and discharging device

*Upper flanges description:*

- |                |                              |
|----------------|------------------------------|
| 1. Manhole     | DN 500                       |
| 2. Vent nozzle | DN 80 , Vent valve Fort Vale |
| 3. Nozzle      | DN 150, blind flange         |
| 4. Nozzle      | DN50, blind flange           |
| 5. Nozzle      | DN 80, blind flange          |

*Lower flanges description:*

- |                 |   |
|-----------------|---|
| 1. Bottom valve | Fort Vale DN125, carbon steel, T-pipe DN100- heating jacket |
| 2. End valve    | Y-valve, Fort Vale, DN100, Carbon steel, Cap W 5 1/2"       |
| 3. Vent pipe    | DN80 , Cap 2"   |

## 4. Additional information

- Conformity with EN12561-2, EN12561-6, EN12561-7 and EN12561-8